

FIG. 1

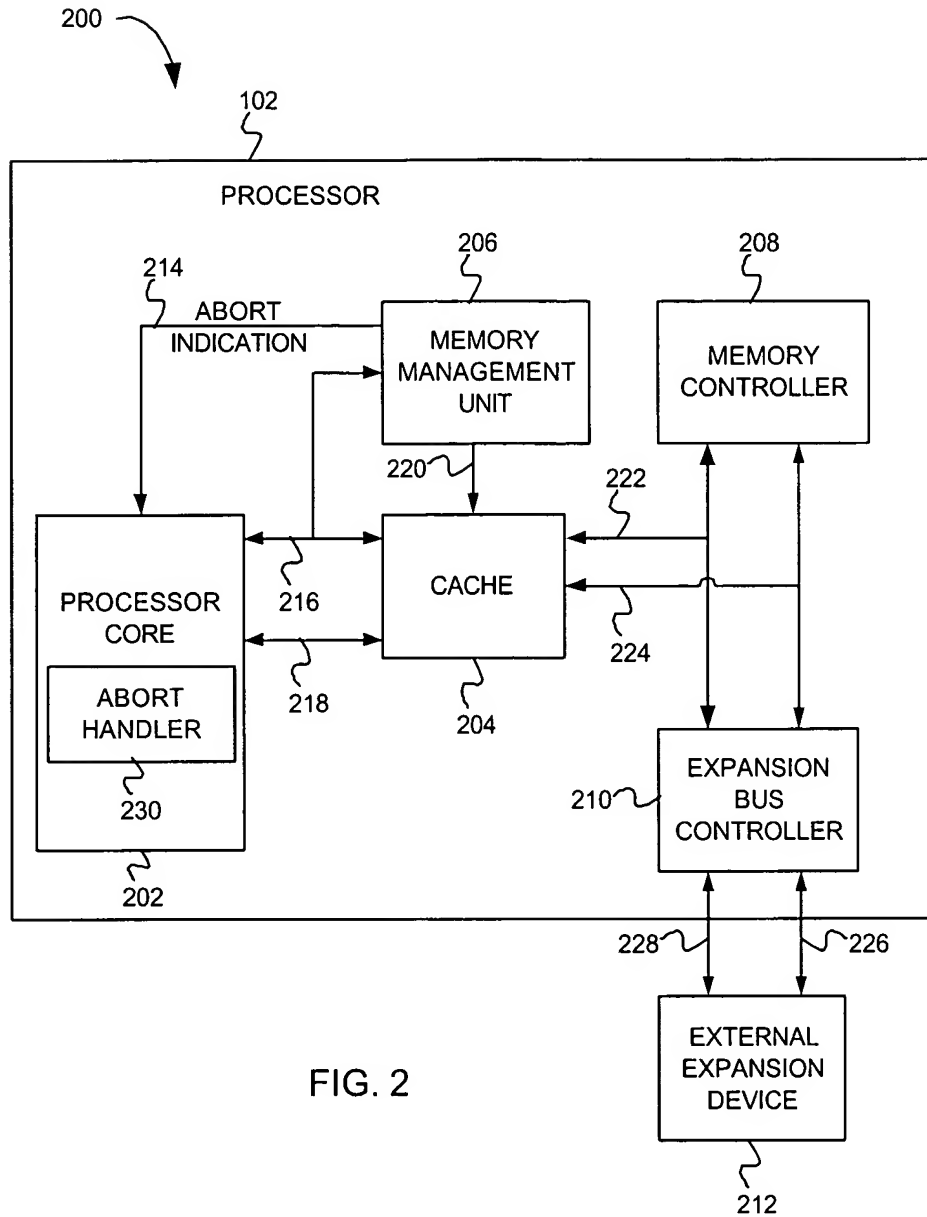


FIG. 2

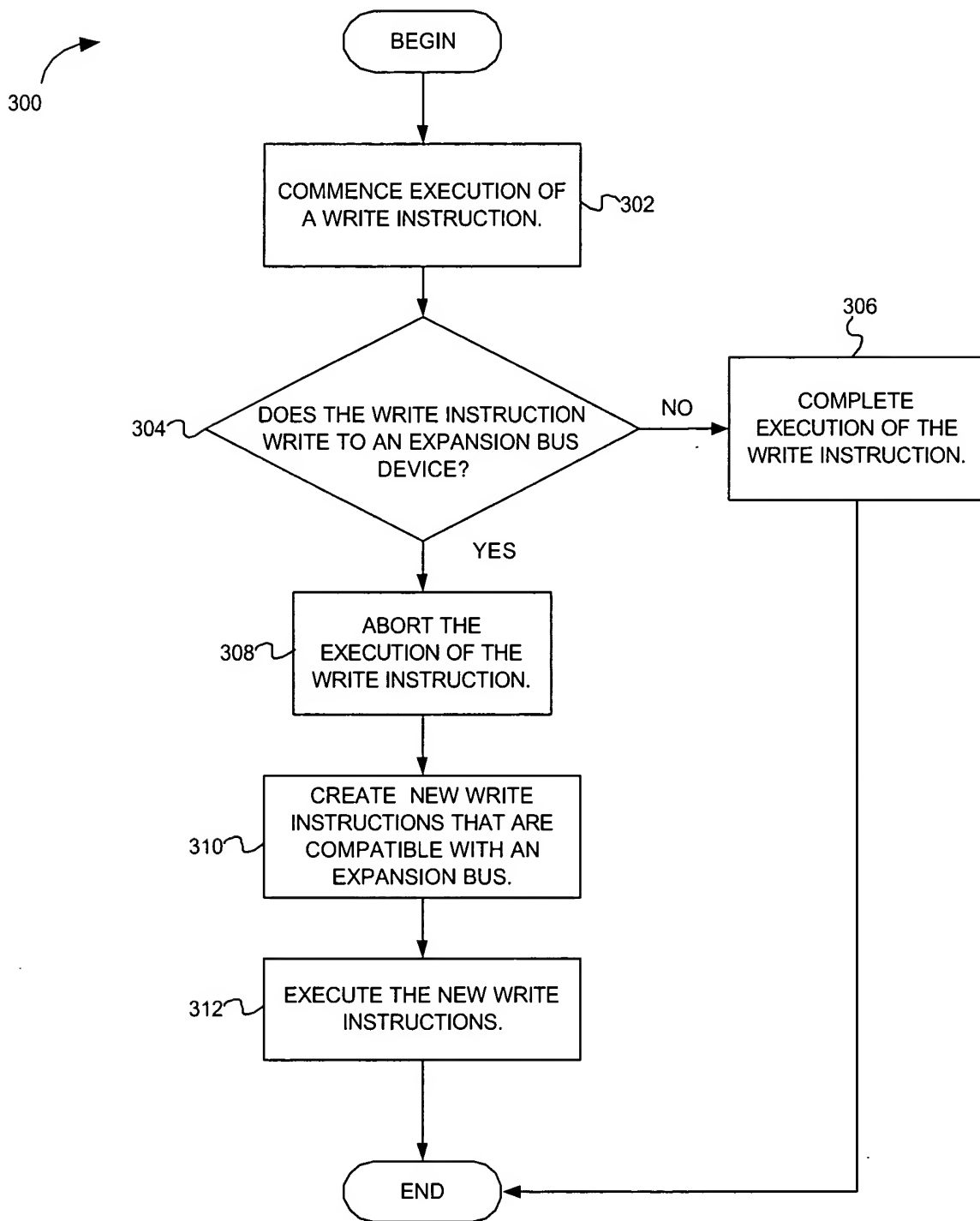


FIG. 3

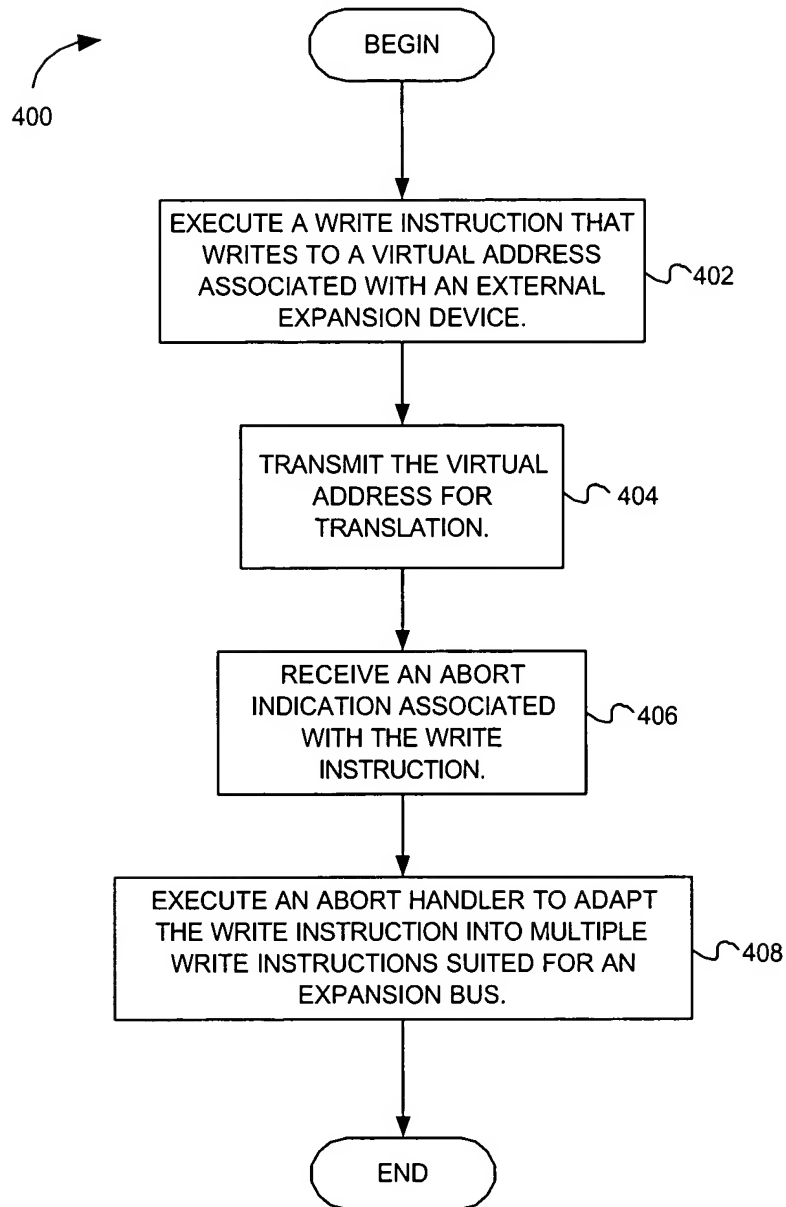


FIG. 4

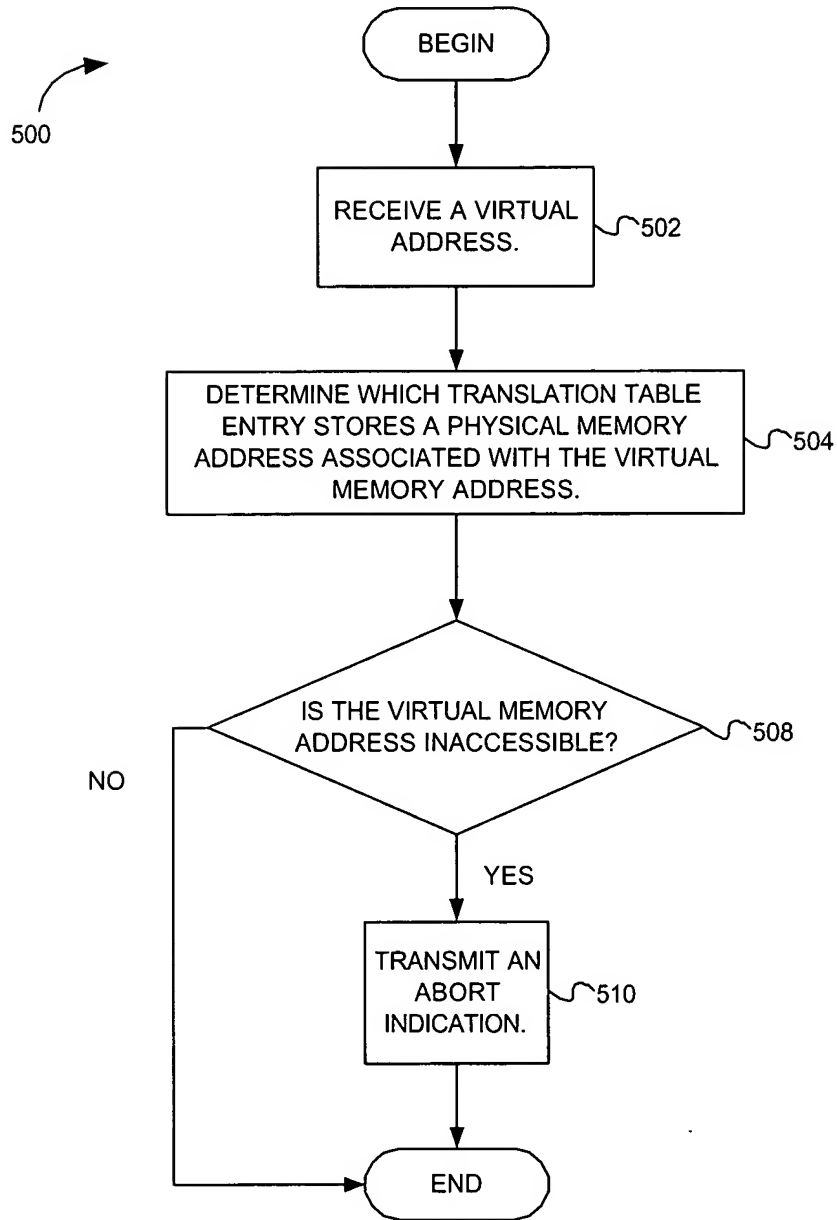


FIG. 5

600



FUNC_LABEL(expansionAbortHandler)

602 ~ stmdb sp!,{r0,r1,r2,r3,r4,r5,r6,r7,r8,r9,r10,r11,lr}

604 ~ mrc p15,0,r0,c6,c0,0

606 ~ ldr r1,[r14,#-8]

608 ~ mov r2,sp

610 ~ expansionWriteEmulator

612 ~ ldmia sp!,{r0,r1,r2,r3,r4,r5,r6,r7,r8,r9,r10,r11,lr}

614 ~ subs pc,r14,#4

FIG. 6

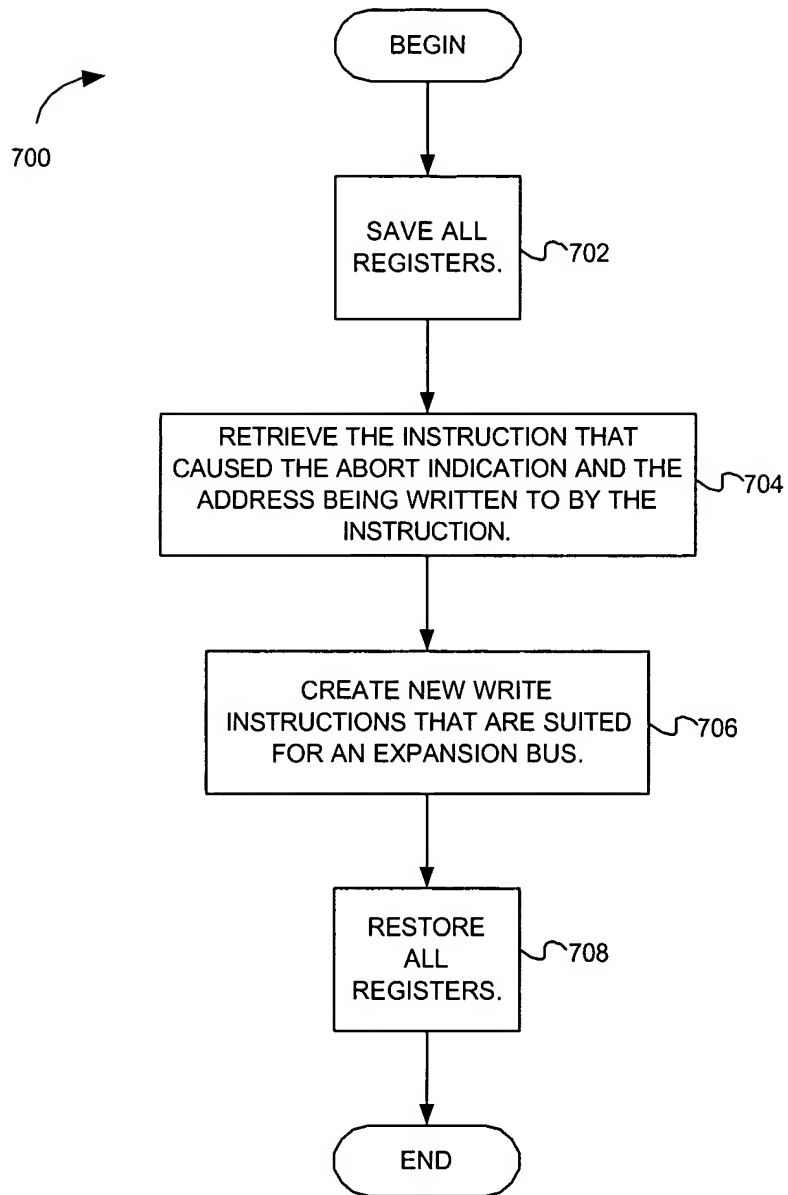


FIG. 7

800



```
typedef struct
{
    unsigned long regs[NUMBER_OF_PROCESSOR_REGS] ;
} xscale_abort_regs;

void expansionWriteEmulator(unsigned long faultAddress,
                           unsigned long faultInstruction,
                           xscale_abort_regs *abortRegs)
{
    unsigned long writeVal;
802 ~ if ( XSCALE_INSTRUCTION_IS_32BIT_WRITE(faultInstruction))
    {
806 ~     writeVal =
        abortRegs->regs[LDR_STR_RD_BITS(faultInstruction)];
808 ~     faultAddress &= 0x7FFFFFFF;
810 ~     *(( unsigned short * )(faultAddress +2 )) = (writeVal & 0xFFFF);
812 ~     *(( unsigned short * )(faultAddress )) = ((writeVal >> 16) & 0xFFFF);
    }
    return;
}
```

FIG. 8

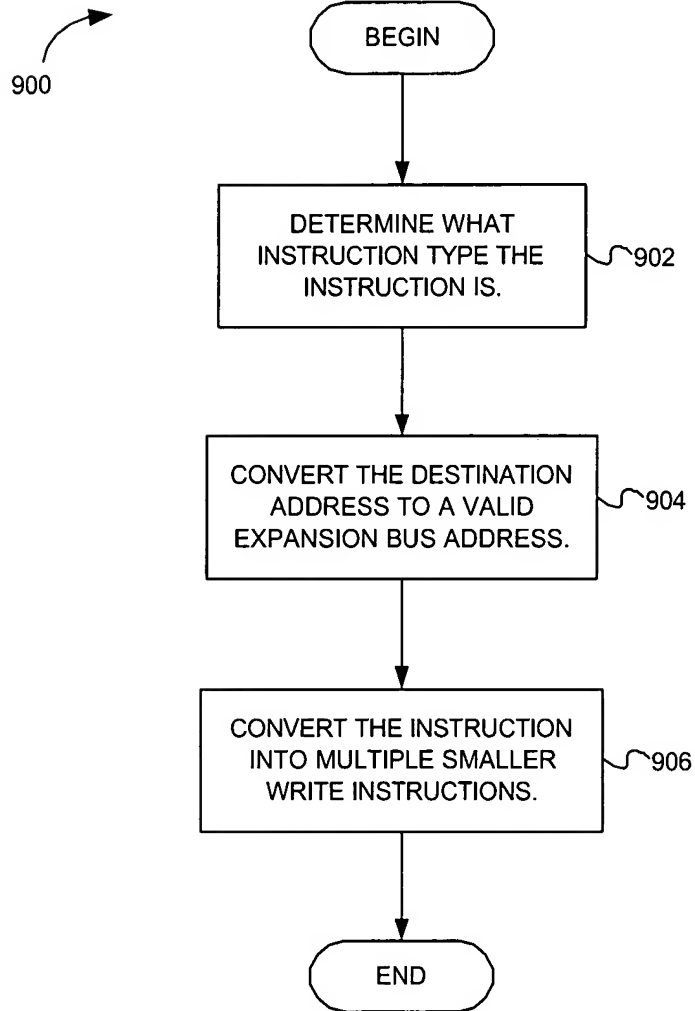


FIG. 9